

4213 State St., Suite 205 Santa Barbara, CA 93101 Telephone (805) 681-3100 FAX (805) 631-3108

Sampling Equipment: 2" ID Split-spoon

Project: Vandenberg Air Force Base Log of Well No. 7-MW-5

Sand Filter Pack:

Location: OU5, Site 7, Bear Creek Canyon, approx. 2000 ft southeast of intersection of Bear Creek Canyon and Surf Road.

20 ft bgs to

35 ft bgs

Date Started: 7/6/94 Completed: 7/8/94 4" PVC Blank Casing: 22 ft bgs0 ft bgs to from Logged By: J.Rohrer/K.Beeler Checked By: R 22 ft bgs to  $32_{ft bgs}$ .010 " Screened Casing: from Drilled By: T. De Vries, Layne Env. 1.5 ft bgs to  $17_{ft}$  bgs Bentonite/Cement Grout: from Drilling Equipment: CME 750, HSA Bentonite Transition Seal: 17 ft bgs to 20 ft bgs from

2/12

from GS Elev.: 147.5 ft above MSL TD: 95.6 ft bgs 150 05

GS Elev.:	147.5 ft above MSL	TD: 95.6 ft bgs	TOC Elev.:	150.05	ft above M			
Depth (ft bgs)	DESCRIPTION		Graphic/ USCS	Well Construction	Sample Blow Counts Per 6"	Percent Recovery	O PID(ppm)	REMARKS
-	silty sand black (10 YR 2/1), fine graimedium and coarse grained, moderate sorted, subrounded, medium dense, sli	silt, moderately	SM	**************************************	4 6 9	100		Start 1350. Sample V7MW5-0 sent for chemical tests.
5	silty sand brown (10YR 4/3), moist, po 3' bgs.	ossible base of fill at	SM		2 4 6	100	0/0	
10	silty sand olive brown (2.5Y 4/3), fine trace fine gravel, poorly sorted, subrouslightly moist, alluvium.	to coarse grained, nded, medium dense,			5 8 12	100	1	Sample V7MW5-9 sent for chemical tests.
15	Same, except without gravel.				4 6 9	100	1	Sample V7MW5-14 sent for chemical tests.
	Same, except dark brown (7.5YR 3/2), staining, wet.	moderate iron	¥		4 5	33	0/0	Sample V7MW5-19 sent for chemical

19.0 ft bgs 👱 Groundwater depth during drilling

17.8 ft bgs 💆 Groundwater depth after well development on:

7/29/94

TC Number: 7301-11

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Location: OU5, Site 7, Bear Creek Canyon, approx. 2000 ft southeast of intersection of Bear Creek Canyon and Surf Road.

			of intersection of Bear Creek Canyon and Surf Road.						
Depth (ft bgs)		Graphic/ USCS	Well Construction	Sample Blow	Per 6" Percent	Recovery PID(ppm) Amb/Smp	REMARKS		
25	silty sand dark brown (7.5YR 3/2), fine to coarse grained, moderately sorted, subangular to rounded, moderate iron staining, medium dense, wet, alluvium.  Same, except black (7.5YR 2.5/1), fine grained, trace clay.	SM		45,10	100		Start of PVC vee-wire screen.  Saturated.  Sample V7MW5-25 sent for physical tests.		
30	Same, except light olive brown (2.5Y 5/3), fine to medium grained, minor clay.			5 5 7	89	0/0			
35_	Same, except gray (5Y 6/1), trace coarse angular gravel, poorly sorted, two thin inner lenses of clayey sand and clay.			12 13 19	89		Sample V7MW5-34 sent for chemical tests. TD of 12" auger = 35'.		
40	clayey sand gray (5Y 6/1), fine grained, poorly sorted, subangular to rounded, low plasticity, medium dense, interlayered with silty fine sand, wet, alluvium.	sc		12 13 19	100	0/0			
-	silty sand dark grayish brown (2.5Y 3/2), fine grained, trace fine gravel, trace clay, poorly sorted, subangular to rounded,	SM <sup>-</sup>		3 5	100	0/0			



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Location: OU5, Site 7, Bear Creek Canyon, approx. 2000 ft southeast of intersection of Bear Creek Canyon and Surf Road.

		of intersection of Bear Creek Canyon and Surf Road			and Sui i Road.		
Depth (ft bgs)		Graphic/ USCS	Construction -	Sample Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS
	moderate decay odor, medium dense, very moist, alluvium.  silty sand dark grayish brown (2.5Y 3/2), fine grained, trace fine grained gravel, trace clay, poorly sorted, subangular to rounded, moderate decay odor, medium dense, very moist, alluvium.	SM		15		H	
50	Same, except very moist.			3 5 9	100	0/0	
55				3 7 9	100	0/0	
60	Same, except with 20% coarse gravel, subangular.			2 2 3	100	0/0	
65	sandy silt dark gray (5Y 4/1), fine grained, trace clay, subangular to rounded, moist, possible Careaga Formation.	ML		7 9 11	100	6.6	Sample V7MW5-64 sent for chemical tests.
	silt dark gray (5Y 4/1), minor fine grained sand, trace clay, subangular to rounded, moist, possible Careaga Formation.			15 49	100	.2/1.8	



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Location: OU5, Site 7, Bear Creek Canyon, approx. 2000 ft southeast of intersection of Bear Creek Canyon and Surf Road.

	TAX (SOS) SOLUTION				of intersection of Bear Creek Canyon and Surf Road.							
Depth (ft bgs)	DESCRIPTION		U	aphic/ JSCS	Well Construction	Sample	Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS		
75	silt dark gray (5Y 4/1), minor fine grained sand, trace clay, subangular to rounded, moist, possible Careaga Formation.			ML			15 21 43	100	0/0			
80							24 40 50	100	0/0	Sample V7MW5-79 sent for chemical tests.		
85							20 35 50/4"	100	0/0			
90	Same, homogeneous.						20 35 50/3"	100	0/0			
-							35 35	100	0/0	Sample V7MW5-94 sent for chemical		



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Location: OU5, Site 7, Bear Creek Canyon, approx. 2000 ft southeast of intersection of Bear Creek Canyon and Surf Road.

Depth (ft bgs)	DESCRIPTION	Graphic/ USCS		Percent Recovery PID(ppm) Amb/Smp	REMARKS			
	silt dark gray (5Y 4/1). minor fine grained sand, trace clay, subangular to rounded, moist, possible Careaga Formation.		50/3"		tests. End Time. TD of 8" auger = 95.5'. NOTE: Drilled to 95.5' bgs. Plug-back with bentonite/cement grout to 38'. Set benonite chips from 38' to 35' bgs and construct 4" well.			
100								
105	-							
110								
115_								
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